

IN THE ABSTRACT:

Please amend the abstract as follows:

An X-ray detector comprising a scintillation layer (38) separated by a partition (39) for each pixel and a photodiode (43) for converting fluorescent light, which is converted by the scintillation layer (38), into a signal charge, wherein when an average particle diameter of phosphor particles forming the scintillation layer (38) is D_s and an average particle diameter forming the partition (39) is D_w , $D_s > D_w$ is satisfied.